

I claim:

1. An improved power transmission belt tensioner of the type having a pulley adapted to communicate with a surface of a power transmission belt, an arm supporting said pulley upon which said pulley is rotatably mounted via a pulley bearing, a shaft supporting said arm, said shaft rotatably supported by a pivot bearing, an attachment point for a strut, and said strut attached to said attachment point, the improvement comprising:
5 said pulley and said attachment point laterally offset in relation to said pivot bearing and substantially balanced in terms of parasitic torque across said pivot bearing.
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2. The improvement of claim 1 wherein, said strut attachment point is laterally opposite of said pivot bearing in relation to the plane at the center of rotation of said pulley.
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3. The improvement of claim 2 wherein, said strut attachment forms part of a member extending from a support for said pulley bearing.
- 20 4. The improvement of claim 3 wherein, said member is a shield.
5. The improvement of claim 1 wherein, said strut attachment point is laterally opposite of said pulley in relation to the plane at the center of rotation of said pivot bearing.
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6. The improvement of claim 5 wherein, said strut attachment point is beyond the lateral limits of said pivot bearing.
7. The improvement of claim 5 wherein, said strut attachment forms part of a member extending from said shaft.
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8. The improvement of claim 5 wherein, the plane at the center of rotation of said pulley is beyond the lateral limits of said pivot bearing.
- 5 9. The improvement of claim 5 wherein, said pulley is radially opposite of said attachment point in relation to said pivot bearing.
10. The improvement of claim 7 wherein, said member is a lever arm.
11. The improvement of claim 1 wherein said tensioner includes a base adapted to support an accessory.
12. A power transmission drive comprising:
 - a crankshaft pulley;
 - an accessory pulley;
 - 15 a power transmission belt;
 - a power transmission belt tensioner having a tensioner pulley adapted to communicate with a surface of said power transmission belt, an arm supporting said tensioner pulley upon which said tensioner pulley is rotatably mounted via a pulley bearing, a shaft supporting said arm, said shaft rotatably supported by a pivot bearing, an attachment point for a strut, and said strut attached to said attachment point, said pulley and said attachment point laterally offset in relation to said pivot bearing and substantially balanced in terms of parasitic torque across said pivot bearing; and,
 - 20 said power transmission belt trained about said crankshaft pulley, said accessory pulley and said tensioner pulley.
- 25 13. The power transmission drive of claim 12 further comprising, said strut attachment point being laterally opposite of said pivot bearing in relation to the plane at the center of rotation of said tensioner pulley.

14. The power transmission drive of claim 13 further comprising, said strut attachment forms part of a member extending from a support for said pulley bearing.
- 5 15. The power transmission drive of claim 14 further comprising, said member being a shield.
- 10 16. The power transmission drive of claim 12 further comprising, said strut attachment point being laterally opposite of said pulley in relation to the plane at the center of rotation of said pivot bearing.
- 15 17. The power transmission drive of claim 16 further comprising said strut attachment point being beyond the lateral limits of said pivot bearing.
18. The power transmission drive of claim 16 further comprising, said strut attachment forms part of a member extending from said shaft.
19. The power transmission drive of claim 16 further comprising the plane at the center of rotation of said pulley being beyond the lateral limits of said pivot bearing.
- 20 20. The power transmission drive of claim 18 further comprising, said member being a lever arm.
- 25 21. The power transmission drive of claim 12 wherein said power transmission tensioner includes a base adapted to support an accessory.
22. A method of tensioning a power transmission belt comprising:
 - providing said power transmission belt,
 - 30 providing a pivot bearing

providing a tensioner having a pulley adapted to communicate with a surface of said power transmission belt, a supporting structure including a supporting shaft rotatably supported by said pivot bearing for supporting a supporting arm, said supporting arm for supporting said pulley, said pulley being rotatably mounted upon said supporting arm via a pulley bearing, said pulley being laterally offset in relation to said pivot bearing, and an attachment point for a strut, said attachment point being laterally offset in relation to said pivot bearing,

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providing said strut,

communicating a biasing force from said strut to said attachment point,

said supporting structure communicating said biasing force to said pulley through rotation about said pivot bearing, and

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substantially balancing said biasing force at said pivot bearing in terms of parasitic torque.

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